-1
n
.40
U,

	Application No.	Applicant(s)		
Notice of Allowability	09/614,698	AHN, WON-ICK		
	Examiner	Art Unit		
	Guillermo Munoz	2637		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to 10/26/2004.				
2. The allowed claim(s) is/are <u>1-9</u> .				
3. A The drawings filed on 26 October 2004 are accepted by the Examiner.				
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s) 1. S Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PTO	-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔀 Interview S	ummary (PTO-413),	.02)	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. ⊠ Examiner's	/Mail Date Amendment/Comment		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		Statement of Reasons for Allov	vance	
S. Distriguish Material	9. 🗍 Other	- Jean B.C.	RAMELUS	

Application/Control Number: 09/614,698

Art Unit: 2637

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lenny R. Jiang on November 29, 2004.

The application has been amended as follows:

In claim 2, line 9; change "so to as to" to —so as to—.

In claim 4, line 7; change "the to phase error" to —the phase error—.

In claim 6, line 1; change "claim 1" to —claim 2—.

In claim 7, line 1; change "claim 3" to —claim 4—.

Reason for Allowance

The following is an examiner's statement of reasons for allowance:

Claim 9 is allowed for reasons described in Office Action mailed July 26, 2004.

Claims 1-8 are considered allowable because the present invention comprises a digital receiver having an equalizing unit which operates in a self-recovering equalization algorithm during an initial stage and a decision directed equalization algorithm after a predetermined time has lapsed. The equalizing unit further includes a coefficient updating unit which receives a

Page 3

phase lock signal from a carrier recovering and phase lock detecting unit and a restored signal from a re-rotator unit for generating an error for updating coefficients of the equalizing unit. The closes prior art, Murakami (cited in Office Action mailed July 26, 2004) shows a similar circuit including an adaptive equalizing unit. However, Murakami fails to teach a coefficient updating unit which receives a phase lock signal from a carrier recovering and phase lock detecting unit and a restored signal from a re-rotator unit for generating an error for updating coefficients of the equalizing unit. This distinct feature has been included in independent claim 1 rendering it allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guillermo Munoz whose telephone number is 571-272-3045. The examiner can normally be reached on Monday-Friday 8:30a.m-4:30p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/614,698

llerus Tim

Art Unit: 2637

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GM

November 23, 2004

VAL (CORRIELUS
PRIMARY EXAMINER

11-29-04